

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/646,475 08/22/2003 Stephen T. Staphanos R22.12-0026 9452 27367 7590 12/16/2005 **EXAMINER** WESTMAN CHAMPLIN & KELLY, P.A. SINES, BRIAN J SUITE 1400 - INTERNATIONAL CENTRE ART UNIT PAPER NUMBER 900 SECOND AVENUE SOUTH MINNEAPOLIS, MN 55402-3319 1743

DATE MAILED: 12/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	10/646,475	STAPHANOS, STEPHEN T.
	Examiner	Art Unit
	Brian J. Sines	1743
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).		
Status		
 Responsive to communication(s) filed on <u>03 October 2005</u>. This action is FINAL. 2b) ☐ This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 		
Disposition of Claims		
 4) Claim(s) 1-23 is/are pending in the application. 4a) Of the above claim(s) 23 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-22 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 		
Application Papers		
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.		
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 		
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)
2) Notice of References Cited (PTC-032) Notice of Draftsperson's Patent Drawing Review (PTC-948) Notice of References Cited (PTC-032) Information Disclosure Statement(s) (PTC-1449 or PTC/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da	

Application/Control Number: 10/646,475 Page 2

Art Unit: 1743

DETAILED ACTION

Election/Restrictions

Applicant's election of group I comprising claims 1-22 in the reply filed on 10/3/2005 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)). Claim 23 is withdrawn from consideration.

The Courts have held that a statement of intended use in an apparatus claim fails to distinguish over a prior art apparatus. See *In re Sinex*, 309 F.2d 488, 492, 135 USPQ 302, 305 (CCPA 1962). The Courts have held that the manner of operating an apparatus does not differentiate an apparatus claim from the prior art, if the prior art apparatus teaches all of the structural limitations of the claim. See *Ex Parte Masham*, 2 USPQ2d 1647 (BPAI 1987). Furthermore, the Courts have held that apparatus claims must be structurally distinguishable from the prior art in terms of structure, not function. See *In re Danley*, 120 USPQ 528, 531 (CCPA 1959); and *Hewlett-Packard Co. V. Bausch and Lomb*, *Inc.*, 15 USPQ2d 1525, 1528 (Fed. Cir. 1990) (see MPEP § 2114).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

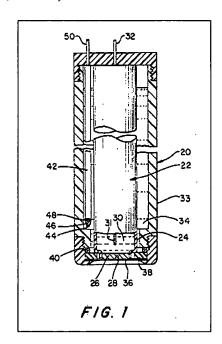
Art Unit: 1743

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1 – 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fran et al. (U.S. Pat. No. 3,950, 231) (hereinafter "Frant").

Frant teaches an apparatus comprising: first and second glands (e.g., case 24 & hollow enclosure 33); a sensor (e.g., electrodes 31 & 22); filter portion (e.g., microporous hydrophobic membrane 36); and a filter fluid (e.g., internal reference solution 30 or electrolyte solution 34) (see figure 1; col. 2, line 35 – col. 3, line 62).



Frant does not specifically teach the use of a tubular filter portion. However, the Courts have held that the change in form or shape, without any new or unexpected results, is an obvious engineering design. See In re Dailey, 149 USPQ 47 (CCPA 1976). It would have been obvious to a person of ordinary skill in the art to incorporate the use of a tubular shaped filter membrane portion with the disclosed sensing apparatus. Frant does teach the use of polytetrafluroethylene (Teflon), polypropylene materials and similar materials for fabricating the disclosed apparatus (see col. 3, lines 1 - 17). In addition, the use of selective membrane materials, such as ceramics and composites, and coatings, such as hydrophilic or hydrophobic coatings that depend upon the specific sensing application, are well known in the art. The Courts have held that the selection of a known material, which is based upon its suitability for the intended use, is within the ambit of one of ordinary skill in the art. See In re Leshin, 125 USPQ 416 (CCPA 1960) (see MPEP §

Page 4

Conclusion

incorporate the use of appropriately selected material depending upon the sensing application.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The cited prior art teach various additional sensing devices.

2144.07). Therefore, it would have been obvious to a person of ordinary skill in the art to

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian J. Sines whose telephone number is (571) 272-1263. The examiner can normally be reached on Monday - Friday (11 AM - 8 PM EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on (571) 272-1267. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/646,475

Page 5

Art Unit: 1743

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).